

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A portable electrocardiograph comprising:

[[a]] first and second stacked-layered circuit board boards;

an electrocardiogram measurement device that measures an electrocardiogram to obtain electrocardiogram data; and

a radio communication device that radio-transmits the electrocardiogram data obtained by said electrocardiogram measurement device in real time, ~~wherein;~~ and

a logic circuit that analog-digital converts said electrocardiogram data, wherein

said first and second stacked-layered circuit board includes boards each include a plurality of circuit boards and a ground conductor layer provided between any ones of said plurality of circuit boards,

said logic circuit is arranged between one side of said first stacked-layered circuit board and one side of said second stacked-layered circuit board,

said electrocardiogram measurement device is arranged on [[one]] the other side of said first stacked-layered circuit board, and said radio communication device is arranged on the other side of said second stacked-layered circuit board,

said ground conductor layer is disposed so that said electrocardiogram measurement device and said radio communication device are isolated from each other, and

said radio communication device includes a transmission circuit.

2. (Original) The portable electrocardiograph according to claim 1, further comprising a casing that houses said electrocardiogram measurement device, said radio communication device, and said stacked-layered circuit board.

3. (Previously Presented) The portable electrocardiograph according to claim 1, further comprising an externally readable first storage device that stores the electrocardiogram data obtained by said electrocardiogram measurement device.

4. (Original) The portable electrocardiograph according to claim 1, further comprising an accelerometer that measures acceleration to obtain acceleration data, wherein said radio communication device radio-transmits the acceleration data obtained by said accelerometer in real time.

5. (Previously Presented) The portable electrocardiograph according to claim 4, further comprising an externally readable second storage device that stores the acceleration data obtained by said accelerometer.

6. (Previously Presented) The portable electrocardiograph according to claim 1, wherein said radio communication device receives a given alarm signal that is transmitted by an external computer,

the portable electrocardiograph further comprising an alarm sound output device that outputs an alarm sound in response to the alarm signal received by said radio communication device.

7. (Previously Presented) The portable electrocardiograph according to claim 1, wherein said radio communication device receives a given alarm signal that is transmitted by an external computer,

the portable electrocardiograph further comprising an alarm display device that displays an alarm in response to the alarm signal received by said radio communication device.

8. (Withdrawn) An electrocardiogram monitoring system comprising:

a portable electrocardiograph housing an electrocardiogram measurement device that measures an electrocardiogram to obtain electrocardiogram data and a communication device that radio-transmits the electrocardiogram data obtained by said electrocardiogram measurement device in real time; and

a computer that receives the electrocardiogram data transmitted from said portable electrocardiograph and has a display unit that displays the received electrocardiogram data;

wherein said portable electrocardiograph housing includes a stacked-layered circuit board having a plurality of circuit boards and a ground conductor layer provided between any one of said plurality of circuit boards.

9. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein said portable electrocardiograph further houses a storage device that stores the electrocardiogram data obtained by said electrocardiogram measurement device.

10. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein

said communication device is a radio communication device that radio-transmits the electrocardiogram data to a base station connected to a public network, and

said computer includes a communication equipment that receives the electrocardiogram data transmitted from said base station via the public network.

11. (Withdrawn) The electrocardiogram monitoring system according to claim 10, wherein said communication equipment receives the electrocardiogram data transmitted from said base station via the public network via a line.

12. (Withdrawn) The electrocardiogram monitoring system according to claim 10, wherein said communication equipment receives by radio communication the electrocardiogram data transmitted from said base station to other base station via the public network.

13. (Withdrawn) The electrocardiogram monitoring system according to claim 10, wherein said communication equipment receives the electrocardiogram data transmitted from said base station via the public network by way of Internet.

14. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein said communication device is a radio communication device that radio-transmits the electrocardiogram data to a base station connected to a private network, and

said computer receives the electrocardiogram data transmitted from said base station via the private network.

15. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein said computer has a function of transmitting a signal to said portable electrocardiograph,

said communication device in said portable electrocardiograph receives the signal transmitted from said computer, and

said portable electrocardiograph further includes an alarm output unit that outputs an alarm based on the signal received by said communication device.

16. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein said portable electrocardiograph has a casing that houses said electrocardiogram measurement device, said communication device, and said stacked-layered circuit board,

said electrocardiogram measurement device is arranged on one side of said stacked-layered circuit board, and said communication device is arranged on the other side of said stacked-layered circuit board.

17. (Withdrawn) The electrocardiogram monitoring system according to claim 8, wherein said portable electrocardiograph further houses an acceleration measurement device that measures acceleration to obtain acceleration data,

said communication device radio-transmits the acceleration data obtained by said acceleration measurement device in real time, said computer receives the acceleration data

transmitted from said portable electrocardiograph to display the acceleration on said display unit based on the received acceleration data.

18. (Withdrawn) An electrocardiogram monitoring method comprising the steps of:  
operating a portable electrocardiograph integrally housing an electrocardiogram measurement device and a public network communication device;  
measuring an electrocardiogram with said electrocardiogram measurement device to obtain electrocardiogram data;  
radio-transmitting the electrocardiogram data obtained by said electrocardiogram measurement device through said public network communication device in real time; and  
receiving the electrocardiogram data transmitted from said portable electrocardiograph by a computer to display the electrocardiogram on a display unit based on the received electrocardiogram data.

19. (Withdrawn) An electrocardiogram monitoring method comprising the steps of:  
operating a portable electrocardiograph integrally housing an electrocardiogram measurement device and a public network communication device while housing a stacked-layered circuit board having a plurality of circuit boards and a ground conductor layer provided between any one of said plurality of circuit boards;  
measuring an electrocardiogram with said electrocardiogram measurement device to obtain electrocardiogram data;  
radio-transmitting the electrocardiogram data obtained by said electrocardiogram measurement device through said public network communication device in real time; and

receiving the electrocardiogram data transmitted from said portable electrocardiograph by a computer to display the electrocardiogram on a display unit based on the received electrocardiogram data.

20. (Previously Presented) The portable electrocardiograph according to claim 1, wherein said radio communication device is a personal handheld device.

21. (Previously Presented) The portable electrocardiograph according to claim 20, wherein said personal handheld device is a cellular phone.